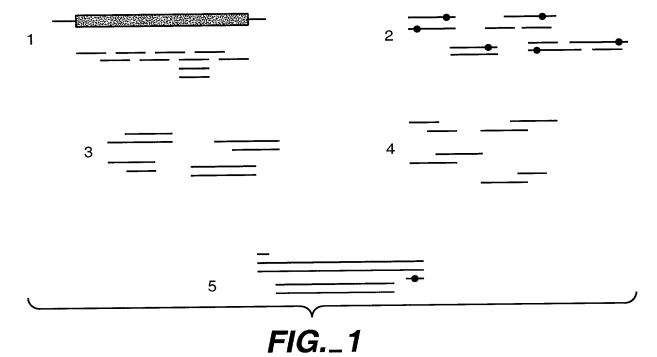
ISGETTON LISTELL



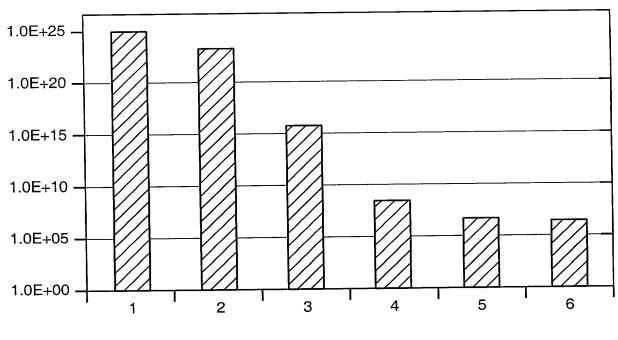


FIG._2

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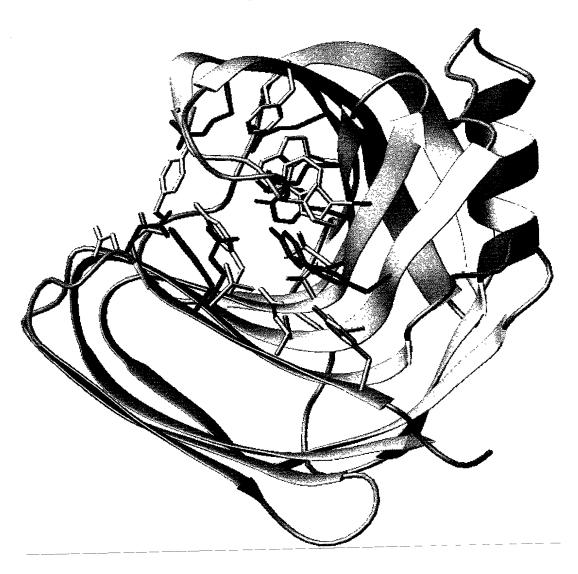
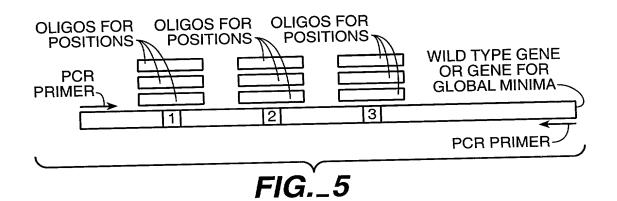


FIG._3



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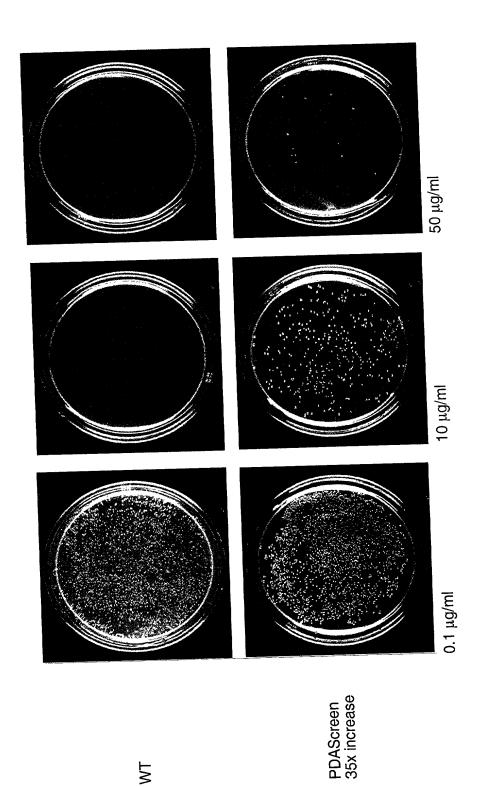
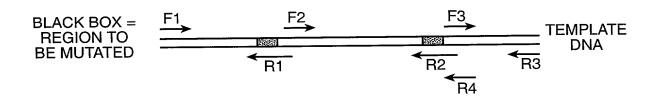


FIG._4

 \mathbb{X}

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STEP 1: SET UP 3 PCR REACTIONS:

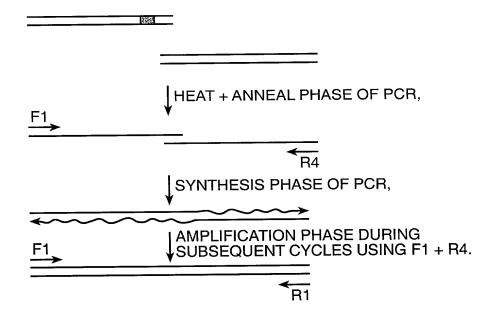
PRODUCTS:

TUBE 1:

TUBE 2:

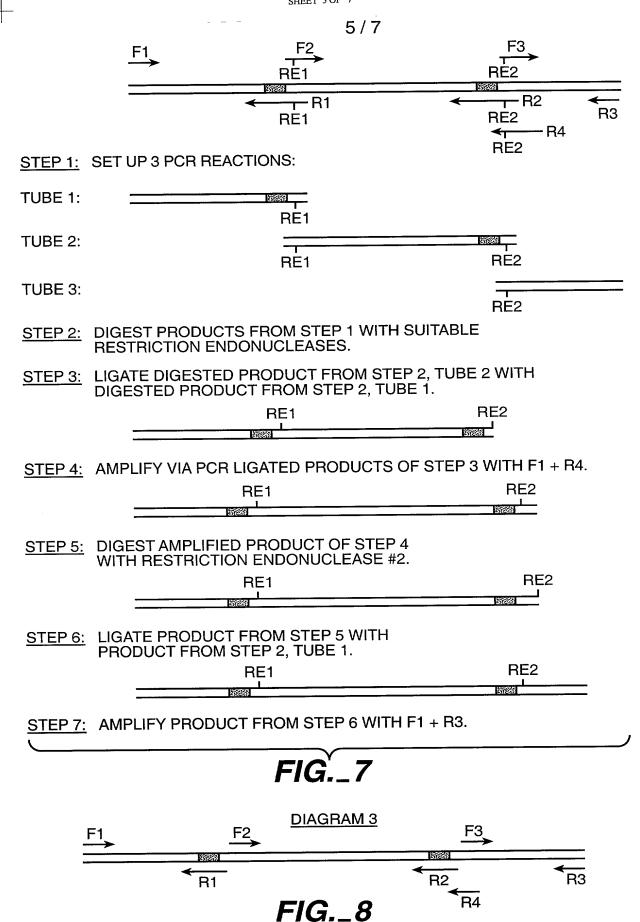
TUBE 3: ______

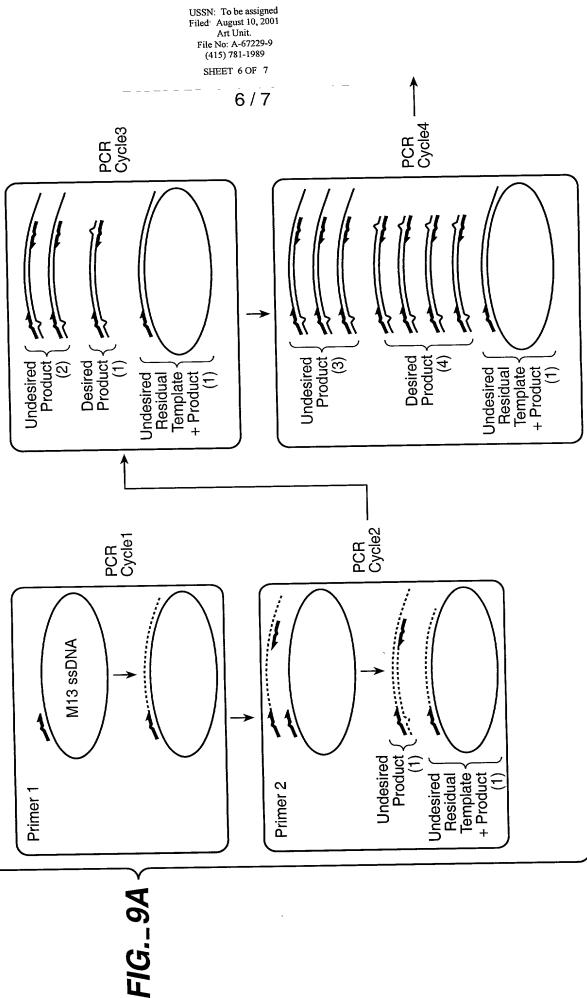
STEP 2: SET UP PCR REACTION WITH PRODUCTS OF TUBE 1 + PRODUCTS TUBE 2 + F1 + R4.



STEP 3: REPEAT STEP 2 USING PRODUCT FROM STEP 2 + PRODUCT FROM STEP 1, TUBE 3 + PRIMERS F1 + R3.

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Amplification Scheme Based on M13 Single Stranded Template

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h Total Lot

Undesired Product <

Numerical Progression of Desired Product with Increasing PCR Cycles	Percent Desired Product in Total Product		%00'0	25.00%	20.00%	68.75%	81.25%	%90'68	93.75%	96.48%	%50.86	%86.83%	99.41%	%89'66	99.83%	99.91%	%56.66	%26.66			100.00%
	Undesired Products and Residual Template		2	3	4	5	9	7	8	6	10	1	12	13	14	15	16	17	18	19	20
	Desired Product		0	-	4	1	26	57	120	247	505	1013	2036	4083	8178	16369	32752	65519	131054	262125	524268
	PCR Cycles	-	8	3	4	5	9	7	8	6	유	=	12	13	14	15	16	17	18	19	20

PCR Cycle5

Desired Product ≺ (11)

Undesired
Residual
Template
+ Product
(1)